



BRUHATH BENGALURU MAHANAGARA PALIKE
BYTARAYANAPURA DIVISION, BANGALORE

EMB

1st & Final Bill

**Name of Work: - Improvements to RCC Drains and RCC Culverts at
Right Side Roads of 1st Main Road Kuvempu Nagara and
Surrounding area in Ward No.05**

Estimated Cost:- 85.00 Lakhs

Job Code: - 005-20-000086

Work Order: - BBMP/EE/BTP/WO/248/19-20, Dated: 21.03.2020

AS No: - EE(BTP)/AS/116/19-20, Dated:-16.03.2020

TS No: - SE(YNK)/TS/49/19-20, Dated: - 16.03.2020

Name of the Contractor: - M/s KRIDL

BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

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Detailed Measurements

Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount in Rs
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil involving, excavated surface leveled & sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1 page No.1 & 2							Cum	1020.68	207.60	211893.17

2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2 page No.2 & 3							Cum	244.22	5509.33	1345488.57

3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM, complete as per specifications do- Wall & bottom thickness 15cm										
	For RCC Drain Bed Concrete										
	Kuvempu Nagara Cross road from 1st Main Road (RCC Drain)										
	Cross-2 (RHS)										
		1	12.20	1.00			0.15		1.830		
		1	30.00	1.00			0.15		4.50		
		1	30.00	1.00			0.15		4.50		
		1	18.50	1.00			0.15		2.78		
	Cross-2 (LHS)										
		1	30.00	1.00			0.15		4.50		
		1	30.00	1.00			0.15		4.50		
		1	30.00	1.00			0.15		4.50		
		1	18.40	1.00			0.15		2.76		
	Cross-1 (LHS)										
		1	24.60	1.00			0.15		3.69		
	Cross-4 (RHS)										
		1	30.00	1.00			0.15		4.50		
		1	30.00	1.00			0.15		4.50		
		1	22.00	1.00			0.15		3.30		
	Cross-4 (LHS)										
		1	30.00	1.00			0.15		4.50		
		1	30.00	1.00			0.15		4.50		
		1	19.00	1.00			0.15		2.85		
	Cross-3 (RHS)										
		1	13.50	1.00			0.15		2.03		
		1	24.90	1.00			0.15		3.74		
	Cross-3 (LHS)										
		1	29.30	1.00			0.15		4.40		
		1	30.00	1.00			0.15		4.50		
		1	11.50	1.00			0.15		1.73		
		1	5.50	1.00			0.15		0.83		
		1	30.00	1.00			0.15		4.50		
		1	11.20	1.00			0.15		1.68		
	Near Doddamma Devi Temple (LHS)										
		1	29.30	1.00			0.15		4.40		
		1	20.00	1.20			0.15		3.60		

		1	14.40	1.20			0.15		2.59		
		1	20.05	1.00			0.15		3.01		
For RCC Drain Side Wall											
Cross-2 (RHS)											
		2	12.20	0.15	0.69	0.71	0.70		2.56		
		2	30.00	0.15	0.71	0.67	0.69		6.21		
		2	30.00	0.15	0.67	0.73	0.70		6.30		
		2	18.50	0.15	0.73	0.69	0.71		3.94		
Cross-2 (LHS)											
		2	30.00	0.15	0.66	0.74	0.70		6.30		
		2	30.00	0.15	0.74	0.68	0.71		6.39		
		2	30.00	0.15	0.68	0.72	0.70		6.30		
		2	18.40	0.15	0.72	0.66	0.69		3.81		
Cross-1 (LHS)											
		2	24.60	0.15	0.68	0.72	0.70		5.17		
Cross-4 (RHS)											
		2	30.00	0.15	0.69	0.71	0.70		6.30		
		2	30.00	0.15	0.71	0.67	0.69		6.21		
		2	22.00	0.15	0.67	0.75	0.71		4.69		
Cross-4 (LHS)											
		2	30.00	0.15	0.68	0.72	0.70		6.30		
		2	30.00	0.15	0.72	0.66	0.69		6.21		
		2	19.00	0.15	0.66	0.74	0.70		3.99		
Cross-3 (RHS)											
		2	13.50	0.15	0.68	0.72	0.70		2.84		
		2	24.90	0.15	0.72	0.68	0.70		5.23		
Cross-3 (LHS)											
		2	29.30	0.15	0.66	0.74	0.70		6.15		
		2	30.00	0.15	0.74	0.68	0.71		6.39		
		2	11.50	0.15	0.68	0.70	0.69		2.38		
		2	5.50	0.15	0.70	0.70	0.70		1.16		
		2	30.00	0.15	0.70	0.68	0.69		6.21		
		2	11.20	0.15	0.68	0.74	0.71		2.39		
Near Doddamma Devi Temple (LHS)											
		2	29.30	0.15	0.65	0.75	0.70		6.15		
		2	20.00	0.15	0.75	0.63	0.69		3.02		
		2	14.40	0.15	0.63	0.77	0.70		3.02		
		2	20.05	0.15	0.77	0.65	0.71		4.27		
Kuvempu Nagara Cross road from 1st Main Road (Culverts Work)											
For RCC Culvert Bed Concrete											
Bed Concrete for Culverts - 1		1	6.45	1.50			0.20		1.94		
Bed Concrete for Culverts - 2		1	6.70	1.50			0.20		2.01		
Bed Concrete for Culverts - 3		1	2.50	1.20			0.20		0.60		
Bed Concrete for Culverts - 4		1	5.00	1.50			0.20		1.50		
Bed Concrete for Culverts - 5		1	5.20	1.50			0.20		1.56		
Bed Concrete for Culverts - 6		1	3.20	1.20			0.20		0.77		
For RCC Culvert Side Wall											
Side Wall for Culverts - 1		2	6.45	0.45	0.60	0.60	0.60		3.48		
Side Wall for Culverts - 2		2	6.70	0.45	0.60	0.60	0.60		3.62		
Side Wall for Culverts - 3		2	2.50	0.45	0.50	0.50	0.50		1.13		
Side Wall for Culverts - 4		2	5.00	0.45	0.60	0.60	0.60		2.70		
Side Wall for Culverts - 5		2	5.20	0.45	0.60	0.60	0.60		2.81		
Side Wall for Culverts - 6		2	3.20	0.45	0.55	0.55	0.55		1.58		
Kuvempu Nagara Cross road from 1st Main Road (Culverts Ramp Work)											
Ramp for Culverts - 1		2	6.45	1.00	0.20	0.10	0.15		1.94		
Ramp for Culverts - 2		2	6.70	1.00	0.20	0.10	0.15		2.01		
Ramp for Culverts - 5		2	5.20	1.00	0.20	0.10	0.15		1.56		
Ramp for Culverts - 6		2	3.20	1.00	0.20	0.10	0.15		0.96		
Present Qty=									Cum	255.84	7189.42
										1839337.98	

4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications				
Qty Taken from Pre measurement page Item No. 4 page No.4 & 6		Tonne	17.07	72326.98	1234889.01

5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of Engineer in charges. (Data Rate)								
Covering Slab For RCC Drain									
Kuvempu Nagara Cross road from 1st Main Road (RCC Drain)									
Cross-2 (RHS)									
	1	12.20	0.90					10.98	
	1	30.00	0.90					27.00	
	1	30.00	0.90					27.00	
	1	18.50	0.90					16.65	
Cross-2 (LHS)									
	1	30.00	0.90					27.00	
	1	30.00	0.90					27.00	
	1	30.00	0.90					27.00	
	1	18.40	0.90					16.56	
Cross-1 (LHS)									
	1	24.60	0.90					22.14	
Cross-4 (RHS)									
	1	30.00	0.90					27.00	
	1	30.00	0.90					27.00	
	1	22.00	0.90					19.80	
Cross-4 (LHS)									
	1	30.00	0.90					27.00	
	1	30.00	0.90					27.00	
	1	19.00	0.90					17.10	
Cross-3 (RHS)									
	1	13.50	0.90					12.15	
	1	24.90	0.90					22.41	
Cross-3 (LHS)									
	1	29.30	0.90					26.37	
	1	30.00	0.90					27.00	
	1	11.50	0.90					10.35	
	1	5.50	0.90					4.95	
	1	30.00	0.90					27.00	
	1	11.20	0.90					10.08	
Near Doddamma Devi Temple (LHS)									
	1	29.30	0.90					26.37	
	1	20.00	1.20					24.00	
	1	14.40	1.20					17.28	
	1	20.05	0.90					18.05	
	1	4.15	0.90					3.74	
Missing Slabs									
Present Qty= Sqm								575.97	2337.00
								1346041.89	

6	Providing and fixing Precast RCC cover slabs of 230 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of Engineer in charges. (Data Rate)								
Kuvempu Nagara Cross road from 1st Main Road (Culverts Work)									
	For Culverts - 1, Cross-2	1	6.45	1.50				9.68	
	For Culverts - 2, Cross-2	1	6.70	1.50				10.05	
	For Culverts - 3, Cross-3	1	2.50	1.20				3.00	
	For Culverts - 4, Near Doddamma devi temple	1	5.00	1.50				7.50	
	For Culverts - 5, Cross-4	1	5.20	1.50				7.80	
	For Culverts - 6, Near Doddamma devi temple	1	3.20	1.20				3.84	
Present Qty= Sqm								41.87	5418.00
								226824.52	
7	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications.								
Qty Taken from Pre measurement page Item No. 7 page No.6 & 7								Sqm	874.80
								95.40	83455.92

8	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.								
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9	Providing, laying, spreading and compacting cushioned stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.				
	Qty Taken from Pre measurement page Item No. 9 page No.7	Cum	131.22	2001.28	262607.96

11	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.				
	Qty Taken from Pre measurement page Item No. 11 page No.8	Sqm	877.92	72.08	63280.47
				Total	7321938.02
				GST Charges 12%	878632.56
				KRIDL Charges 4%	292877.52
				Grand Total	8493448.10

Assistant Executive Engineer
Bytarayanapura Sub-Division